Rec'd PCT/PTO INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY SPOOR & FISHER Donald Heather, June SPOOR & FISHER NOTIFICATION OF TRANSMITTAL OF PO Box 41312 THE INTERNATIONAL PRELIMINARY 2024 Craighall **EXAMINATION REPORT** AFRIQUE DU SUD (PCT Rule 71.1) W1.4(164) Dale of mailing NIFHED IN **∓da**y/month/year) 10.05.2004 Applicant's or agent's file reference IMPORTANT NOTIFICATION PA135659/PCT

Entered

Priority date (day/month/year)

01.08.2002

Applicant

International application No.

PCT/IB 03/02985

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CHEMICAL HOLDINGS INT. LTD et al.

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.

International filing date (day/month/year)

28.07.2003

3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:



European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 **Authorized Officer**

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PA135659/PCT International application No. PCT/IB 03/02985				FOR FURTHER A	CTION	See Notification	n of Transmittal of Internation	onal TIPEA/416)
				International filing date 28.07.2003	(day/mon	th/year)	Priority date (day/month/) 01.08.2002	rear)
l			ent Classification (IPC) or 42D1 <i>I</i> 045	both national classification a	and IPC			
	licant EMIC	AL H	OLDINGS INT. LTD	et al.				
1.	. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.							
2.	This	REP	ORT consists of a tota	of 5 sheets, including the	nis cove	sheet.		
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						gs which have e this Authority	
These annexes consist of a total of sheets.								
3.	This	repo	rt contains indications	relating to the following it	ems:			
	ı	\boxtimes	Basis of the opinion					
	П		Priority					
	111		Non-establishment o	f opinion with regard to n	ovelty, i	nventive step	and industrial applicability	y
	IV		Lack of unity of inver	ntion				
	V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability citations and explanations supporting such statement					applicability;		
	VI		Certain documents of	ited				
	VII		Certain defects in the	e international application	1			
	VIII		Certain observations	on the international app	lication			
Date	of sub	missi	on of the demand		Date of	completion of the	nis report	
27.0	27.02.2004				10.05.2004			
	Name and mailing address of the international preliminary examining authority:				Authori	zed Officer		spring as Polenzon,
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465					er, H-J one No. +49 89	2399-2894		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/IB 03/02985

l.	Basis	of t	he re	eport
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages		
	1-7		as originally filed	
	Cla	ims, Numbers		
	1-6		as originally filed	
	Dra	wings, Sheets		
	1/2-	2/2	as originally filed	
With regard to the language, all the elements marked above were available or furnished to this language in which the international application was filed, unless otherwise indicated under this				
	The	se elements were av	ailable or furnished to this Authority in the following language: , which is:	
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).	
		the language of publ	lication of the international application (under Rule 48.3(b)).	
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under 3).	
3.	Witl inte	n regard to any nucle rnational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:	
		contained in the inte	rnational application in written form.	
		filed together with th	e international application in computer readable form.	
		furnished subsequer	ntly to this Authority in written form.	
		furnished subsequer	ntly to this Authority in computer readable form.	
			he subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.	
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.	
1.	The	amendments have r	esulted in the cancellation of:	
		the description,	pages:	
		the claims,	Nos.:	
		the drawings,	sheets:	

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5. ⊔	been considered to go beyond the disclosure as filed (Rule 70.2(c)).
	(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No:

No:

Claims

Claims

Inventive step (IS)

Yes: Claims

1-6

1-6

Industrial applicability (IA)

Yes: Claims

1-6

No: Claims

2. Citations and explanations

see separate sheet

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Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The document representing the closest prior art for claim 1 is US-A-5375524.

It shows a pyrotechnical firing installation comprising a plurality of detonators, each with an electric cable comprising at least two connection conductors and a surface line to which the cable of each detonator is connected, wherein the surface line is formed by sections.

These sections are formed by distinct and separate cables that are joined together by connectors.

The installation of the present invention differs from this one in that every section is comprising a terminal or end part of the electric cable coming from a detonator and an end connector to electrically connect this terminal to the cable of the next detonator at a point of the latter defining the origin of its terminal part.

This arrangement is not disclosed in the prior art. Hence the subject matter of claim 1 is novel (Art. 33(1) and 33(2) PCT) and inventive Art. 33(3) PCT).

It provides a surface line cable by sliding one detonator terminal onto the detonator cable of another detonator, similar to daisy chaining.

EP-A-0281722 also only discloses a single surface line cable. It is reused and thus not part of the detonator cable. There are junction boxes to plug in the bundled detonator cables.

GB-A-2243500 shows a single cable with attachment spots for detonators.

Claim 2 defines a detonator comprising a terminal, that, when applied in a installation, results in the installation defined in claim 1, and hence is considered to fulfil the requirement of unity of invention according to the PCT.

GB-A-2243500 (3a) shows a detonator comprising an electric cable, the free end of which is provided with a connector, which comprises an a first part solid with the end of the cable and provided laterally with connection pins. None of the known detonators

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would be suitable to build an installation as defined in claim 1.

The characterising features of the detonator according to claim 2 are therefore not disclosed in the prior art. Consequently the subject matter of claim 2 is novel and inventive as well.

Claims 2-6 include further preferred features of the invention, and since they are dependent on claim 2, fulfil the requirements of the PCT as well.

The invention is industrially applicable according to Art. 33(4) PCT.